

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

IN THE CLAIMS

Please amend the claims as follows.

1. (Previously Presented) A method for stabilizing performance variation of a primary radio frequency (RF) device, comprising:

generating an output signal with a secondary RF device;

providing the output signal to a feedback circuit;

generating a feedback signal based on the output signal with the feedback circuit;

providing the feedback signal to the secondary RF device;

generating the output signal with the secondary RF device based on the feedback signal;

and

providing the feedback signal to the primary RF device.

2. (Previously Presented) The method of Claim 1, further comprising receiving a reference signal; and

wherein generating the feedback signal comprises generating the feedback signal based on the reference signal.

3. (Original) The method of Claim 2, the reference signal comprising a reference voltage.

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

4. (Original) The method of Claim 1, the secondary RF device configured as an oscillator.

5. (Original) The method of Claim 4, the feedback circuit comprising a peak detector, the method further comprising:

receiving the output signal at the peak detector; and

detecting an oscillation magnitude for the output signal with the peak detector.

6. (Previously Presented) The method of Claim 1, further comprising amplifying the feedback signal to generate an amplified feedback signal; and

wherein providing the feedback signal to the primary RF device comprises providing the amplified feedback signal to the primary RF device.

7. (Previously Presented) The method of Claim 1, wherein:
providing the feedback signal to the primary RF device comprises providing the feedback signal to the primary RF device through a primary bias control; and

providing the feedback signal to the secondary RF device comprises providing the feedback signal to the secondary RF device through a secondary bias control.

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

8. (Currently Amended) A system for stabilizing performance variation of a primary radio frequency (RF) device, comprising:

a secondary RF device operable to generate an output signal; and

a feedback circuit coupled to the secondary RF device, the feedback circuit operable to receive the output signal, to generate a feedback signal based on the output signal, to provide the feedback signal to the secondary RF device, and to provide the feedback signal to the primary RF device; [[and]]

wherein the secondary RF device is further operable to generate the output signal based on the feedback signal.

9. (Previously Presented) The system of Claim 8, further comprising a reference circuit coupled to the feedback circuit, the reference circuit operable to generate a reference signal, the feedback circuit operable to generate the feedback signal based on the reference signal.

10. (Original) The system of Claim 9, the reference signal comprising a reference voltage.

11. (Original) The system of Claim 8, the secondary RF device configured as an oscillator.

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

12. (Original) The system of Claim 11, the feedback circuit comprising a peak detector operable to receive the output signal and to detect an oscillation magnitude for the output signal.

13. (Original) The system of Claim 8, further comprising an amplifier coupled to the feedback circuit, the amplifier operable to amplify the feedback signal to generate an amplified feedback signal and to provide the amplified feedback signal to the primary RF device.

14. (Original) The system of Claim 8, further comprising:
a primary bias control coupled to the primary RF device and to the feedback circuit, the primary bias control operable to provide the feedback signal to the primary RF device; and
a secondary bias control coupled to the secondary RF device and to the feedback circuit, the secondary bias control operable to provide the feedback signal to the secondary RF device.

15. (Previously Presented) A system for processing a radio frequency (RF) signal, comprising:

a primary RF device; and

a bias point stabilizer coupled to the primary RF device, the bias point stabilizer comprising a secondary RF device operable to generate an output signal, the bias point stabilizer operable to generate a feedback signal based on the output signal and to provide the feedback signal to the primary RF device and the secondary RF device, the feedback signal operable to stabilize the primary RF device.

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

16. (Previously Presented) The system of Claim 15, the bias point stabilizer further comprising a feedback circuit coupled to the secondary RF device;

the feedback circuit operable to receive the output signal, to generate the feedback signal based on the output signal, to provide the feedback signal to the secondary RF device, and to provide the feedback signal to the primary RF device;

the secondary RF device operable to generate the output signal based on the feedback signal.

17. (Previously Presented) The system of Claim 16, the bias point stabilizer further comprising a reference circuit coupled to the feedback circuit, the reference circuit operable to generate a reference signal, the feedback circuit operable to generate the feedback signal based on the reference signal.

18. (Original) The system of Claim 17, the reference signal comprising a reference voltage.

19. (Original) The system of Claim 16, the secondary RF device configured as an oscillator, the feedback circuit comprising a peak detector operable to receive the output signal, to detect an oscillation magnitude for the output signal, and to generate an oscillation magnitude signal based on the detected oscillation magnitude.

DOCKET NO. P04987
SERIAL NO. 10/071,150
PATENT

20. (Original) The system of Claim 19, the feedback circuit further comprising an operational amplifier, the operational amplifier comprising an inverting input node operable to receive the reference signal, a non-inverting input node operable to receive the oscillation magnitude signal, and an output node operable to generate the feedback signal based on the reference signal and the oscillation magnitude signal.